PATENT COOPERATION TREATY **PCT**

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABELIES (Chapter II of the Patent Cooperation Treaty)

PCT

r Article 36 and Rule 70)

	(PC1 Afficie 36 ai	na Kale /v)			
pplicant's or agent's file reference 2026WOP00	FOR FURTHER ACTI	ION	See Form PCT/IPEA/416		
nternational application No. 'CT/AU2004/000947	International filing date (14 July 2004	(day/month/year)	Priority date (day/month/year) 14 July 2003		
aternational Patent Classification (IPC) or	national classification and	IPC			
nt. Cl. ⁷ G02B 5/28, H04J 14/02					
opplicant COMMONWEALTH SCIENTI	FIC AND INDUSTRIA	L RESEARCH OI	RGANISATION et al		
This report is the international prelimir Authority under Article 35 and transmi	ary examination report, es	stablished by this Int ding to Article 36.	ernational Preliminary Examining		
2. This REPORT consists of a total of 4	sheets, including this cov	ver sheet.			
3. This report is also accompanied by AN	NEXES, comprising:				
a. \overline{X} (sent to the applicant and to the	ıe International Bureau) a	total of 16 sheets	, as follows:		
sheets containing rectific Administrative Instruction sheets which superseded the disclosure in the interpolar Box.	eations authorized by this A ons). earlier sheets, but which the rnational application as fil eau only) a total of (indica e related thereto, in compu	Authority (see Rule of the second sec	lly, as indicated in the Supplemental Box		
4. This report contains indications relati					
X Box No. I Basis of the rep	ort				
Box No. II Priority	Priority				
Box No. III Non-establishr	nent of opinion with regard	d to novelty, inventi	ve step and industrial applicability		
	Lack of unity of invention				
X Box No. V Reasoned state citations and e	ement under Article 35(2) with regard to novelty, inventive step or industrial applicability; explanations supporting such statement				
Box No. VI Certain docum					
Box No. VII Certain defect	s in the international application				
Box No. VIII Certain observations on the international application					
Date of submission of the demand		Date of completion 13 September 200			
16 May 2005					
Name and mailing address of the IPEA/AU		Authorized Officer			
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au		IRINA TALAN			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/000947

x No. I	Basis of the report
With	regard to the language, this report is based on the international application in the language in which it was filed, unless rwise indicated under this item.
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:
•	international search (under Rules 12.3 and 23.1 (b))
	publication of the international application (under Rule 12.4)
	international preliminary examination (under Rules 55.2 and/or 55.3)
furn	h regard to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally al" and are not annexed to this report):
	the international application as originally filed/furnished
X	the description:
	pages 1-3, 7-15, 17, 18 as originally filed/furnished
	pages* 4-6, 16, 16a, 19, 20 received by this Authority on 19 August 2005 with the letter of 19 August 2005
	pages* received by this Authority on with the letter of
X	the claims:
	pages as originally filed/furnished
	pages* as amended (together with any statement) under Article 19 pages* 21-29 received by this Authority on 19 August 2005 with the letter of 19 August 2005
	pages* 21-29 received by this Authority on 19 August 2005 with the letter of 19 12 pages pages* received by this Authority on with the letter of
V	
(X	pages 1/19 – 19/19 as originally filed/furnished pages* received by this Authority on with the letter of
	pages* received by this Authority on with the letter of
L	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to the sequence listing (specify):
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
•	any table(s) related to the sequence listing (specify):
	If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/000947

lox No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

· citations and explanations of F.				
. Statement				
Novelty (N)	Claims 1-52	YES		
,,,	Claims -	NO		
Townships stem (IS)	Claims 1-52	YES		
Inventive step (IS)		NO		
	Claims -	YES		
Industrial applicability (IA)	Claims 1-52			
·	Claims -	NO		

2. Citations and explanations (Rule 70.7)

Claims 1-52 meet the criteria set out in PCT Article 33(2)-(4) because the prior art does not teach or fairly suggest an optical filter having a passband of less than 1 nm and including a plurality of cavities with at least one spacer of thickness greater than 7 microns, the spacer defining two opposed surfaces each having a plurality of thin layers disposed thereon, wherein the total number of thin layers per cavity is less than 35 and wherein the maximum allowable uniformity error in the thickness of each thin layer is within the range of 1 part in 50,000 to 3 parts in 1000. The prior art documents listed in the International Search Report disclose the optical filters having the passbands much larger than 1 nm and more relaxed tolerances on the uniformity of each thin layer thickness.

The invention has industrial applicability in optical filter devices.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/AU2004/000947

ox No. VIII	Certain observations	on the international	application

he following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully apported by the description, are made:

i) Claim 43 is not clear because I cannot find an antecedent to "said channels" when claim 43 is appended to any one of claims 34 to 42.